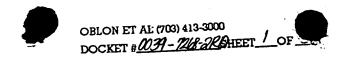
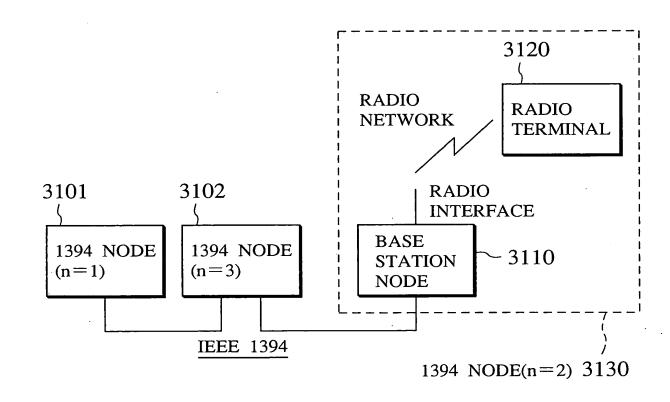
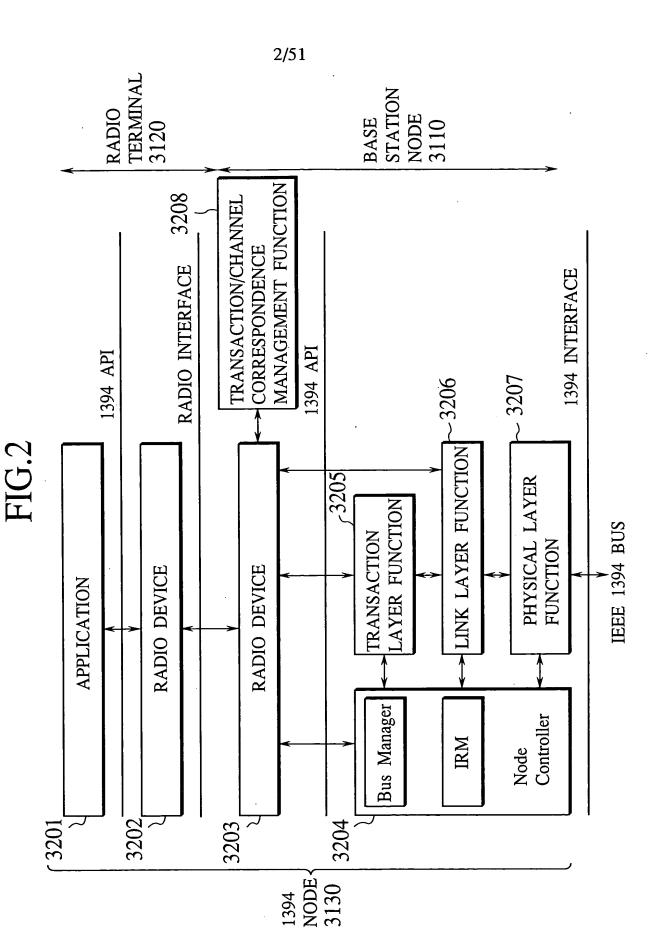
1/2



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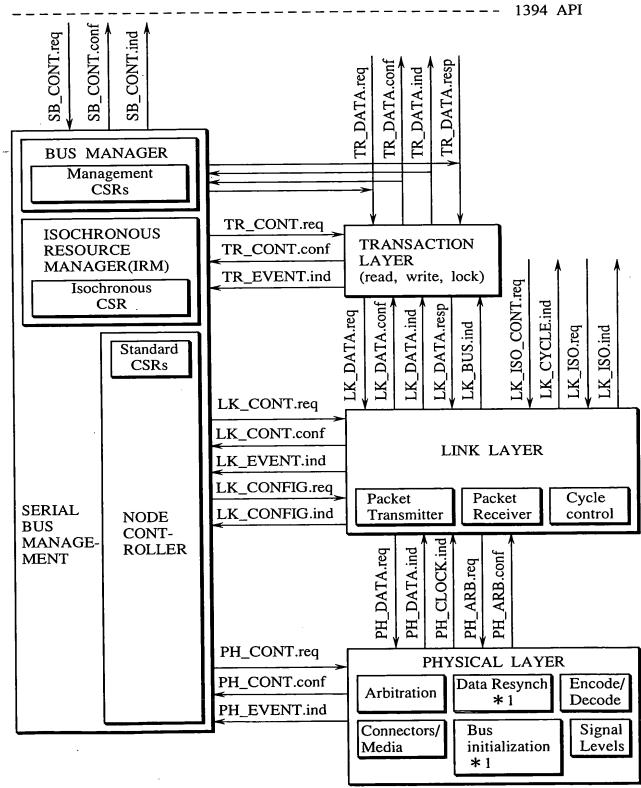




4

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FIG.3



(*1: Only for the cable environment)

BASE STATION 1394 NODE 3101 (n = 1)

NODE 3110 (n=2)

RADIO TERMINAL

3120

(TRANSACTION ID, SOURCE NODE ID=1, DESTINATION NODE ID=2) Write_req. PACKET Ack_Complete

(3) (1394 LAYER PROCESSING)

(4) D (TRANSACTION ID+SOURCE NODE ID=1) (TRANSACTION ID+SOURCE NODE ID=1) (5) [CORRESPONDING PROCESSING] TD_DATA. ind

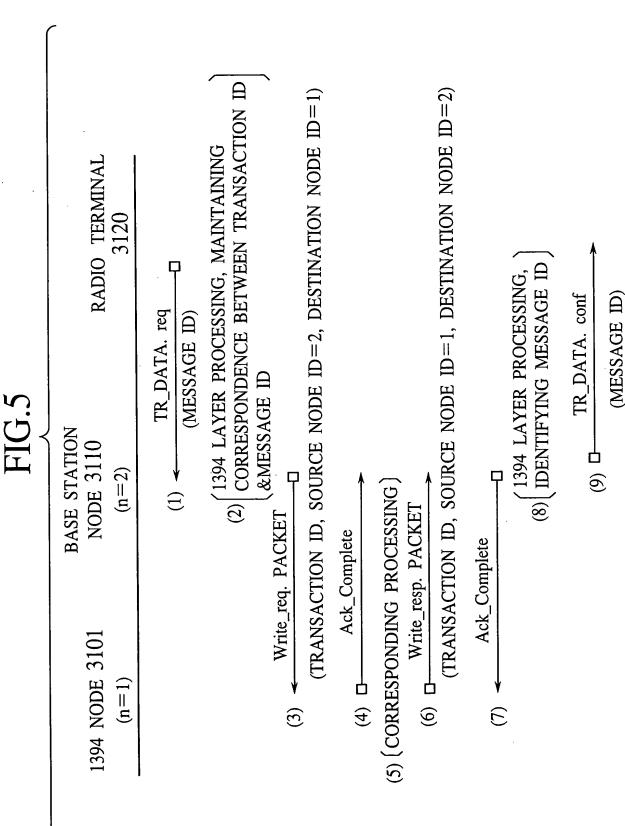
(TRANSACTION ID+SOURCE NODE ID=1) √ (9)

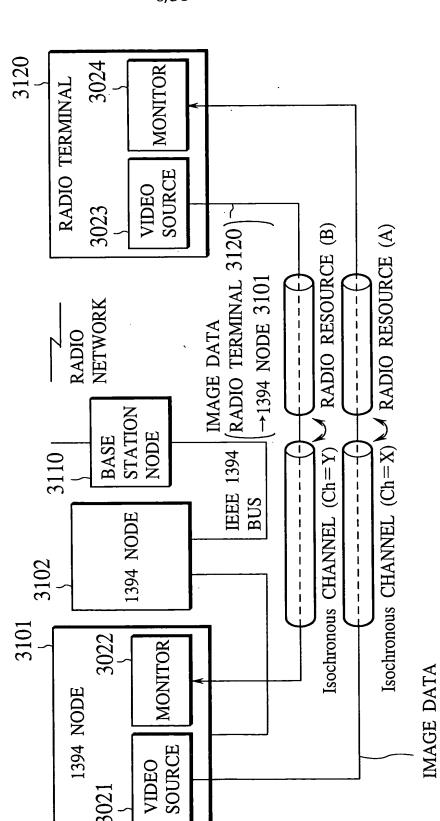
(7) [1394 LAYER PROCESSING]

Write_resp. PACKET

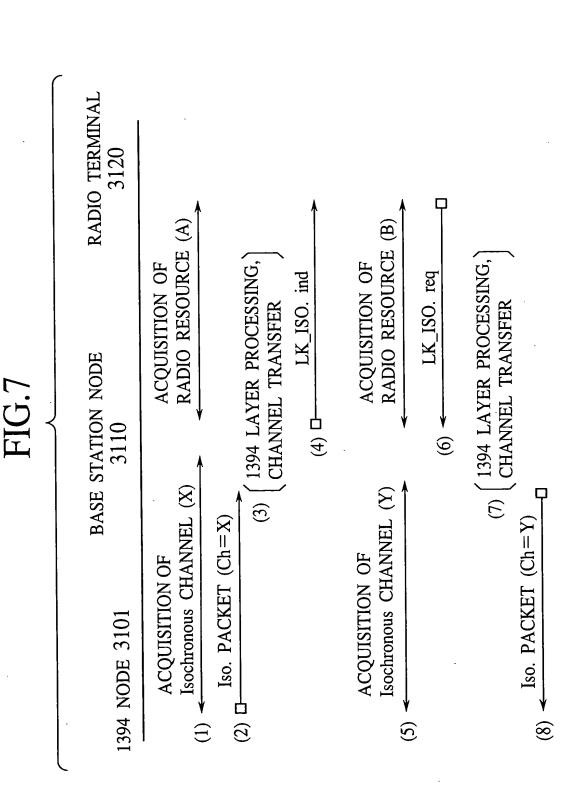
(TRANSACTION ID, SOURCE NODE ID=2, DESTINATION NODE ID=1)

Ack_Complete (6) 日





(1394 NODE 3101→RADIO TERMINAL 3120)



MESSAGE	UTILIZATION FREQUENCY (W)	TIME SLOT (T)
SB_CONT. req	W=A	T=X
SB_CONT. ind SB_CONT. resp	W=A	T=Y
TR_DATA. req TR_DATA. conf	W=B	T=X
TR_DATA. ind TR_DATA. resp	W=B	T=Y
LK_ISO. req	W=C	T=X
LK_ISO. ind	W=C	T=Y
LK_ISO_CONT. req	w=c	$T=Z_1$
LK_CYCLE. ind	W=C	$T=Z_2$

FIG.9

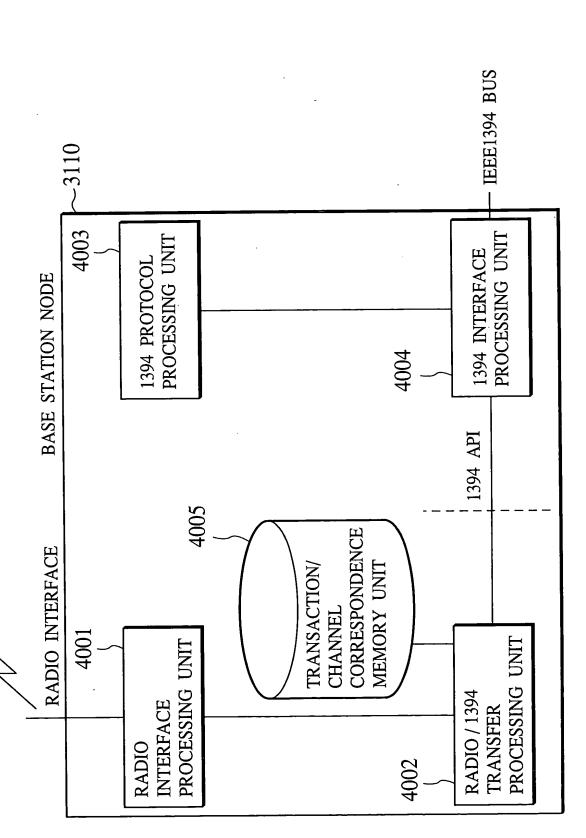
RADIO Header
MESSAGE ID
SB_CONT. req
TR_DATA. req
TR_DATA. resp
LK_ISO_CONT. req
LK_ISO. req
CRC

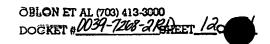
RADIO Header
TRANSACTION ID + 1394 NODE ID
SB_CONT. ind
SB_CONT. conf
TR_DATA. ind
TR_DATA. conf
LK_CYCLE. ind
LK_ISO. ind
CRC

FIG.111

RADIO NETWORK

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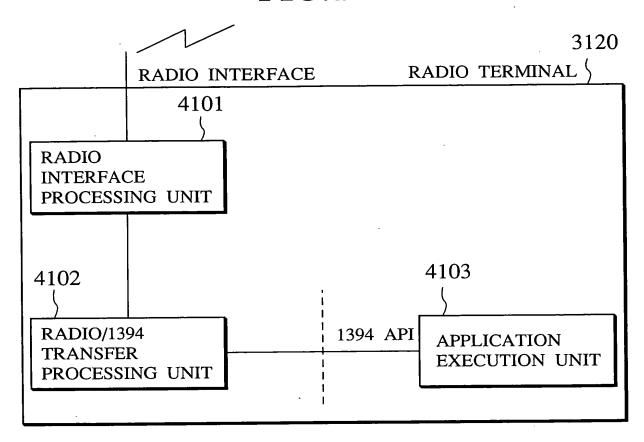
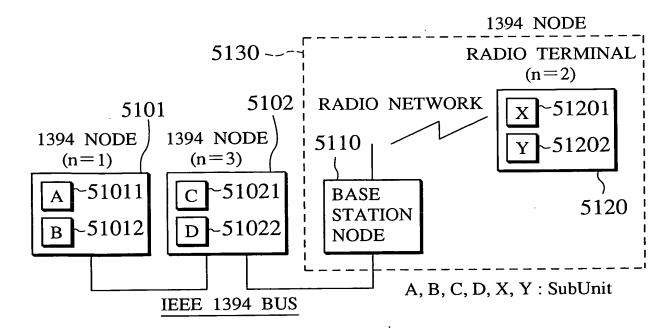


FIG.13



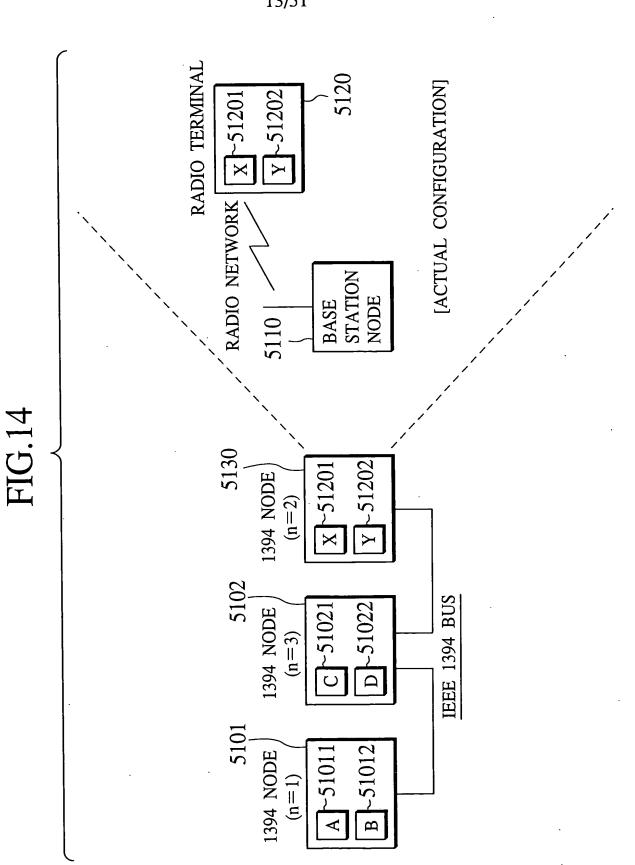


FIG.15

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(5) [CORRESPONDING PROCESSING] (SOURCE NODE ID=1, DESTINATION NODE ID=2, DESTINATION SubUnit_ID=X) (4) DAV / C COMMAND(RADIO PACKET) (DESTINATION SubUnit_ID=X) TERMINAL 5120 AV/C RESPONSE(RADIO PACKET) **RADIO** (7) (READING OUT FCP FRAME, 1394 LAYER PROCESSING (1394 LAYER PROCESSING,) (TAKING OUT FCP FRAME) AV / C COMMAND(Write_req. PACKET) BASE STATION NODE 5110 **↓** (9) (n=2)Ack_Complete 1394 NODE 5101 (n=1)

(SOURCE NODE ID=2, DESTINATION NODE ID=1)

Ack_Complete

(6) 日

AV/C RESPONSE(Write_req. PACKET)

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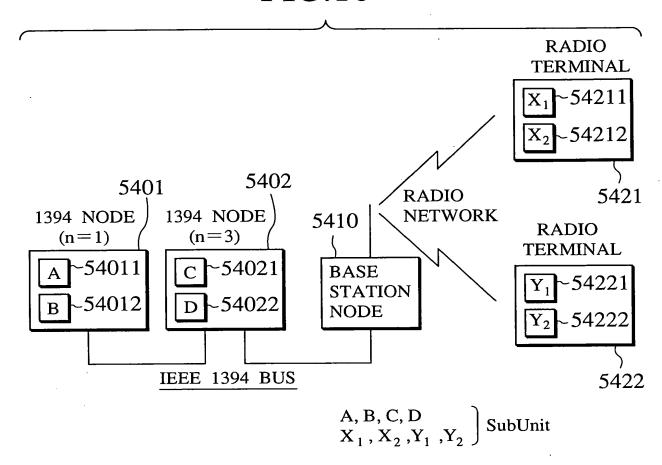
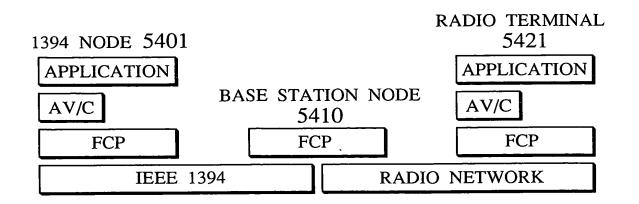
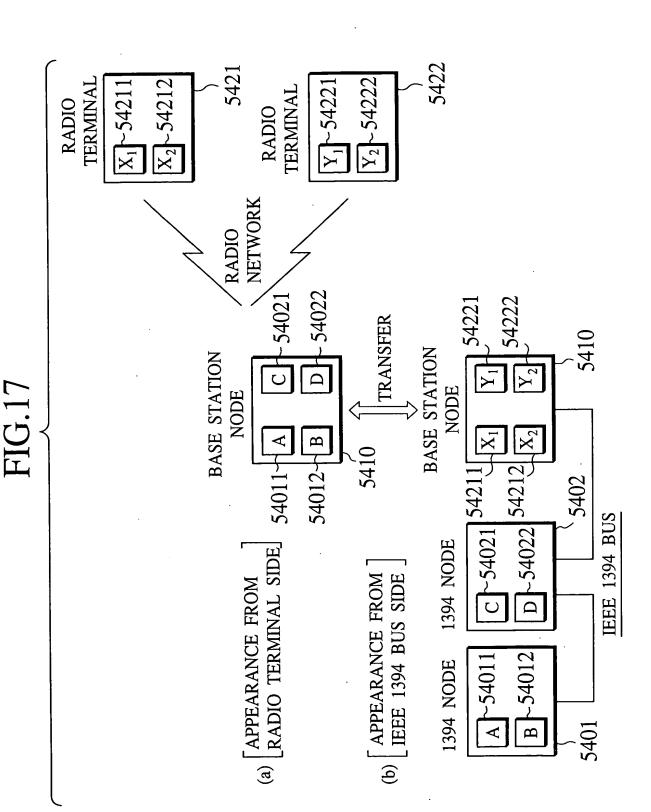
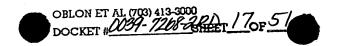


FIG.18

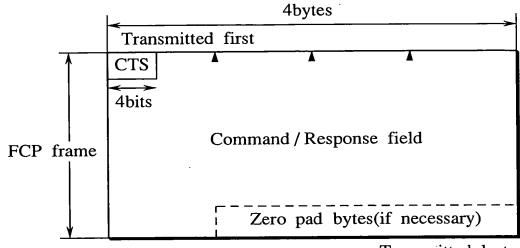






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FIG.19



Transmitted last

RADIO Header	
TRANSACTION ID	
FCP FRAME	
CRC	

FIG.20

RADIO TERMINAL 5421 BASE STATION NODE 5410 (n=2)1394 NODE 5401 (Controller) (n=1)

(1) [AV/C PROTOCOL ACTIVATED BY APPLICATION]

AV/C COMMAND(Write_request PACKET)

TRANSACTION ID=a, DESTINATION SubUnit_ID=X1 SOURCE NODE ID=1, DESTINATION NODE ID=2,

Ack_Complete 3

(4) (ROUTING BY DESTINATION SubUnit_ID)

AV/C COMMAND(RADIO PACKET) DESTINATION SubUnit_ID=X TRANSACTION ID=q,

CORRESPONDENCE TABLE FOR 1394 SIDE TRANSACTION ID & RADIO SIDE TRANSACTION ID, 9

(7) EXECUTION OF AV/C COMMAND

(TRANSACTION ID=q, PROCESSING RESULT) (8) AV/C RESPONSE(RADIO PACKET)

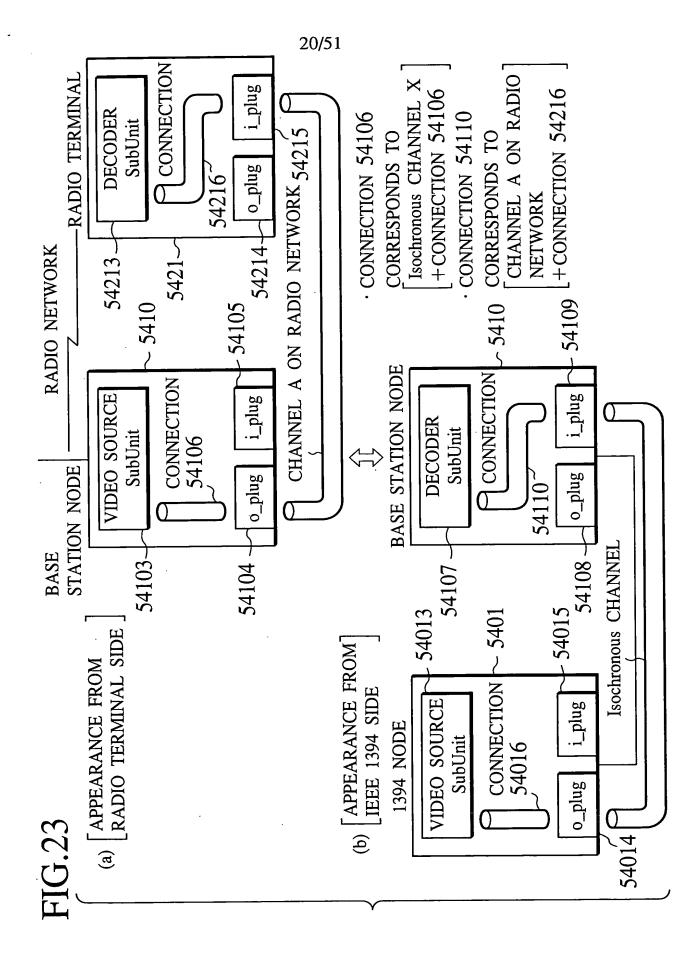
(9) (ROUTING BY TRANSACTION ID VALUE)

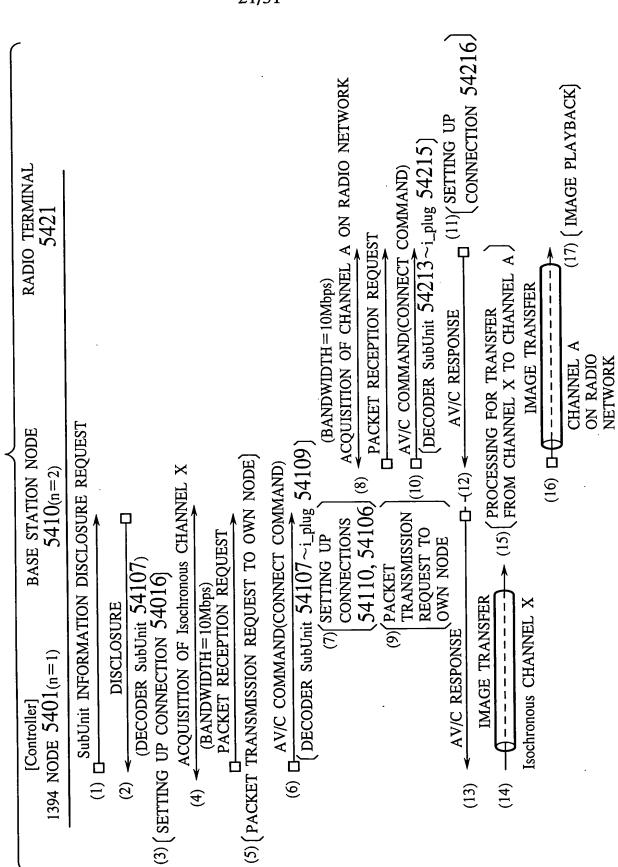
AV/C RESPONSE(Write_request PACKET)

SOURCE NODE ID=2, DESTINATION NODE ID=1,\ TRANSACTION ID=a,

Ack_Complete

19/51 (11) DAV/C RESPONSE(RADIO PACKET) (TRANSACTION ID=q, PROCESSING RESULT) (1) (AV/C PROTOCOL ACTIVATED BY APPLICATION RADIO TERMINAL 5421 'PRODUCING CORRESPONDENCE TABLE (7) FOR RADIO SIDE TRANSACTION ID [Controller] (10) (ROUTING BY TRANSACTION ID AV/C COMMAND(RADIO PACKET) & 1394 SIDE TRANSACTION ID DESTINATION SubUnit_ID=A (3) (ROUTING BY SubUnit_ID) SOURCE NODE ID=1, DESTINATION NODE ID=2, SOURCE NODE ID=2, DESTINATION NODE ID=1, TRANSACTION ID=a, DESTINATION SubUnit_ID=A TRANSACTION ID=q, TRANSACTION ID=a, PROCESSING RESULT AV/C RESPONSE(Write_request PACKET) AV/C COMMAND(Write_request PACKET) BASE STATION NODE 5410 (n=2)EXECUTING PROCESSING Ack_Complete Ack_Complete CORRESPONDING TO AV/C COMMAND 1394 NODE (5)(8) 円 5401 (n=1)9 FIG.21





APPROVED

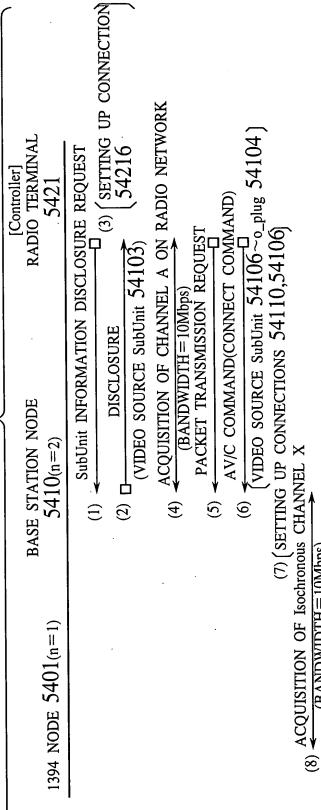
FIG.25

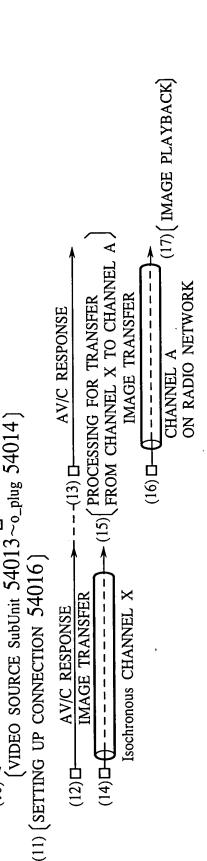
O.G. FIG.

SUBCLASS

CLASS

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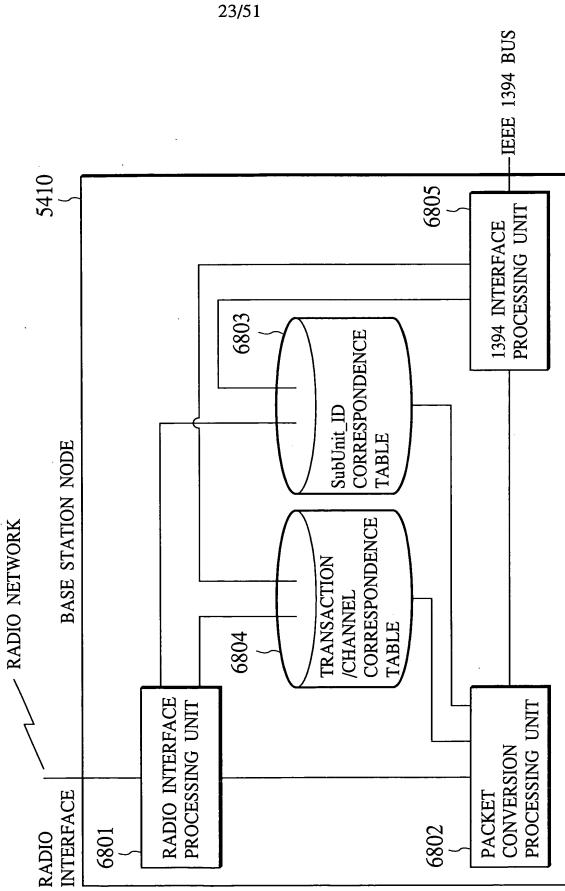




(10) AV/C COMMAND(CONNECT COMMAND)

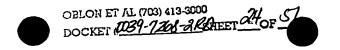
(9) PACKET TRANSMISSION REQUEST

(BANDWIDTH = 10Mbps)



DSEMBERGE STEEL

APPROVED O.G. FIG.
BY CLASS SUBCLASS
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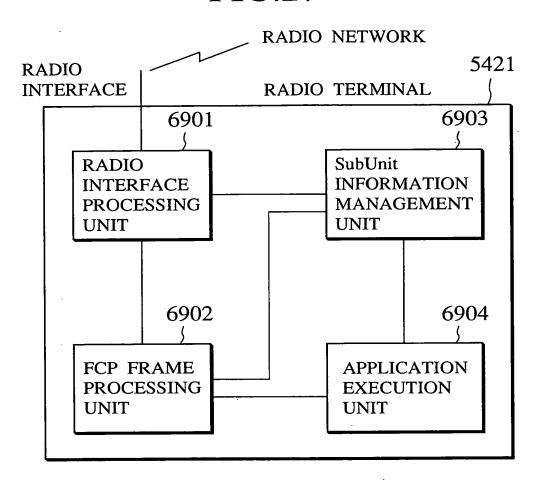


FIG.40

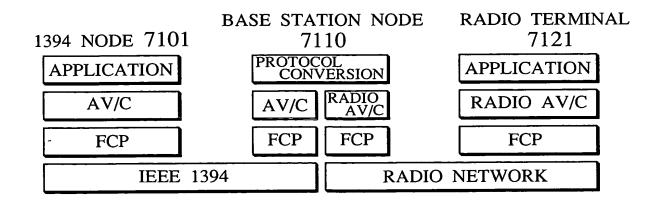
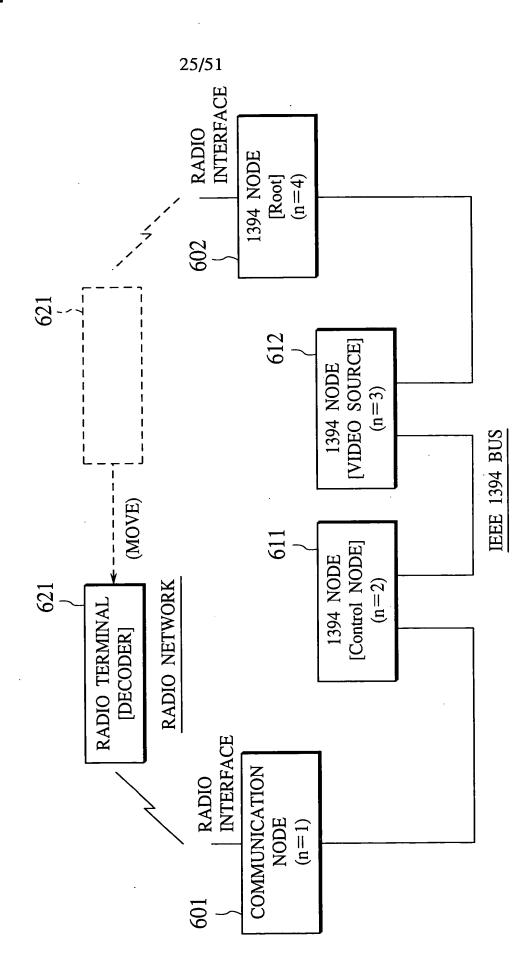
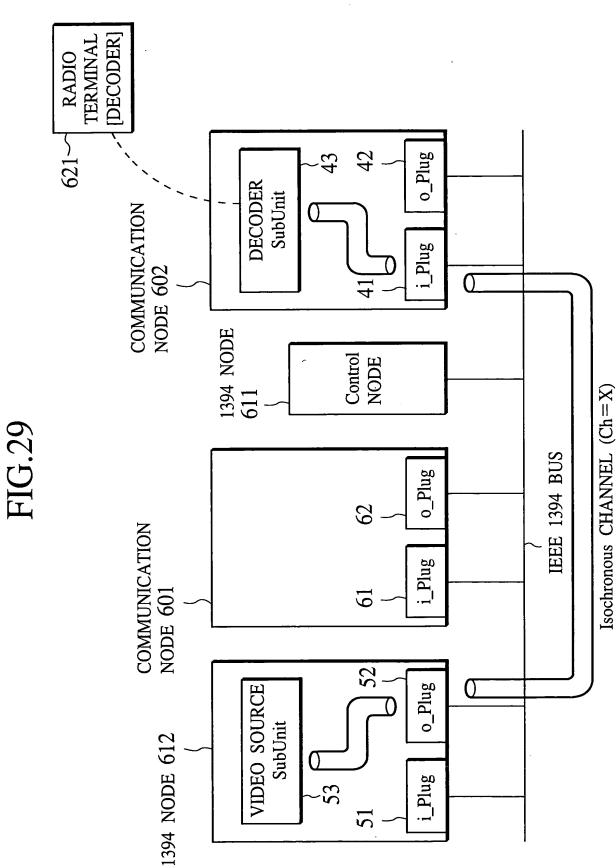
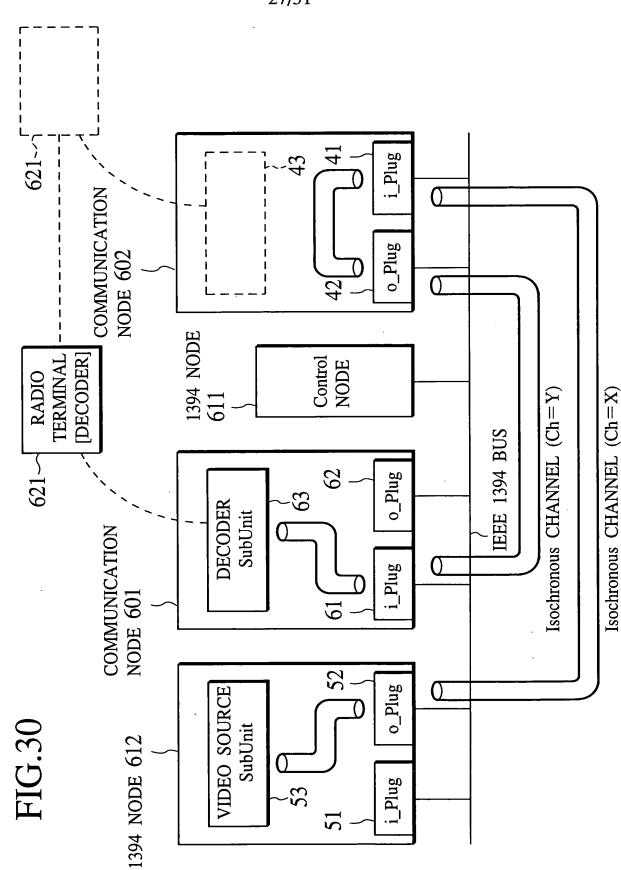


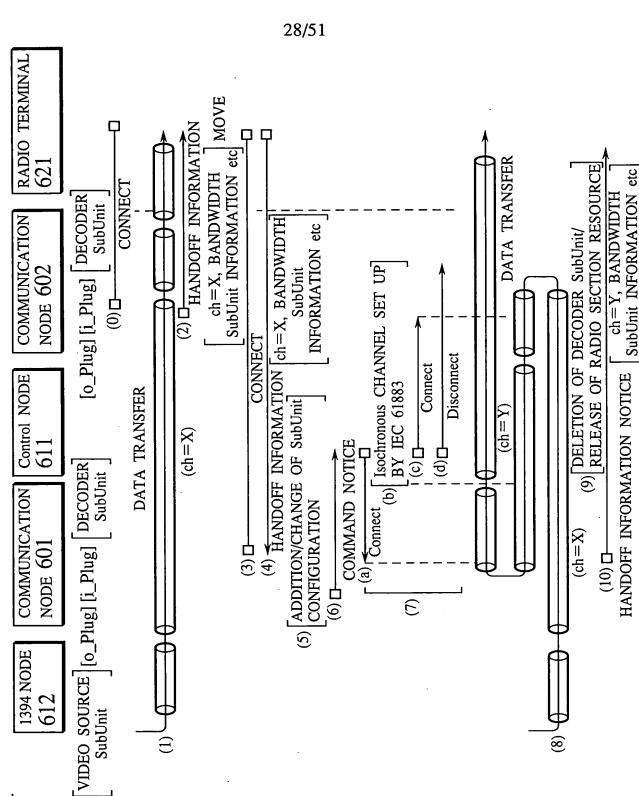
FIG.28



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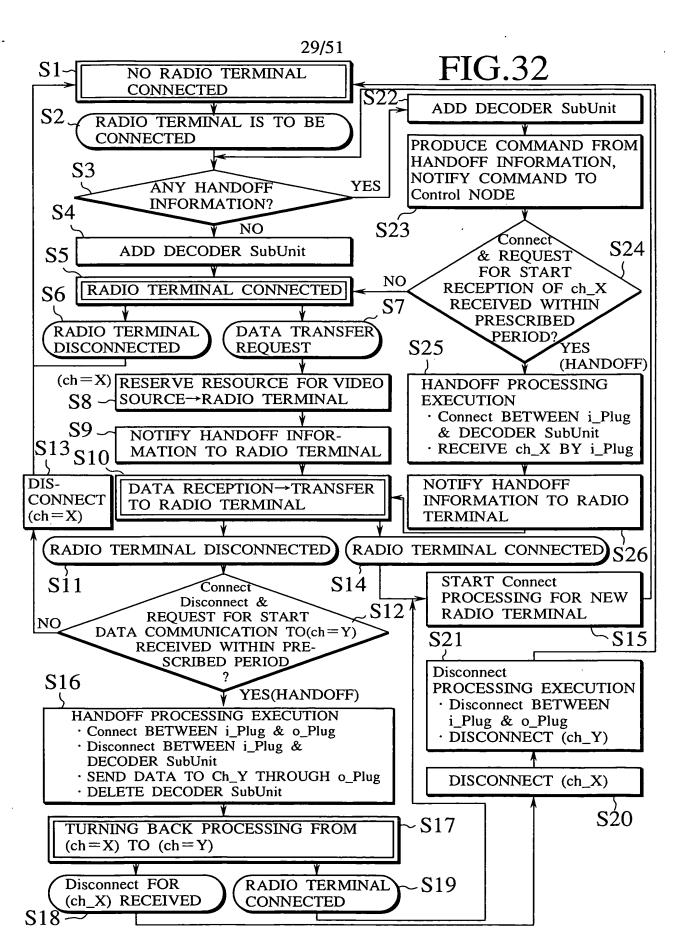
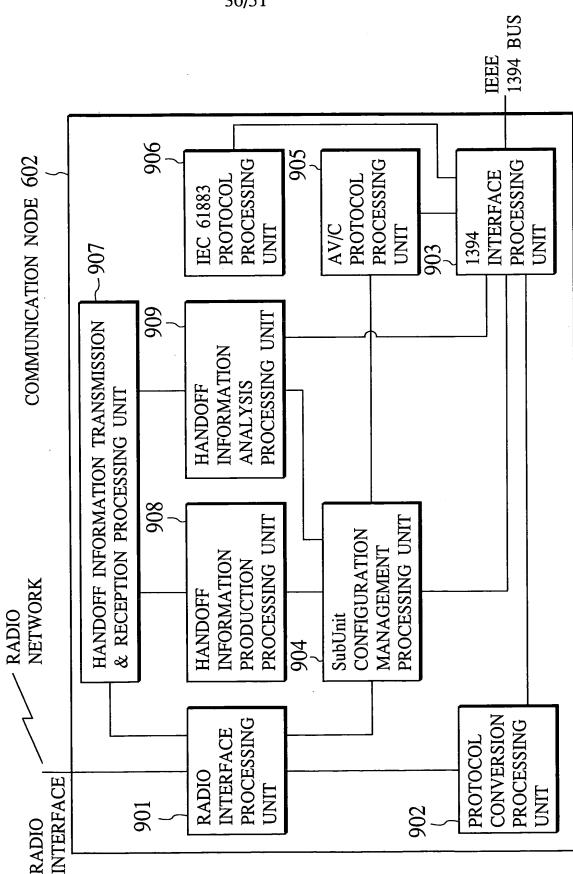


FIG.33

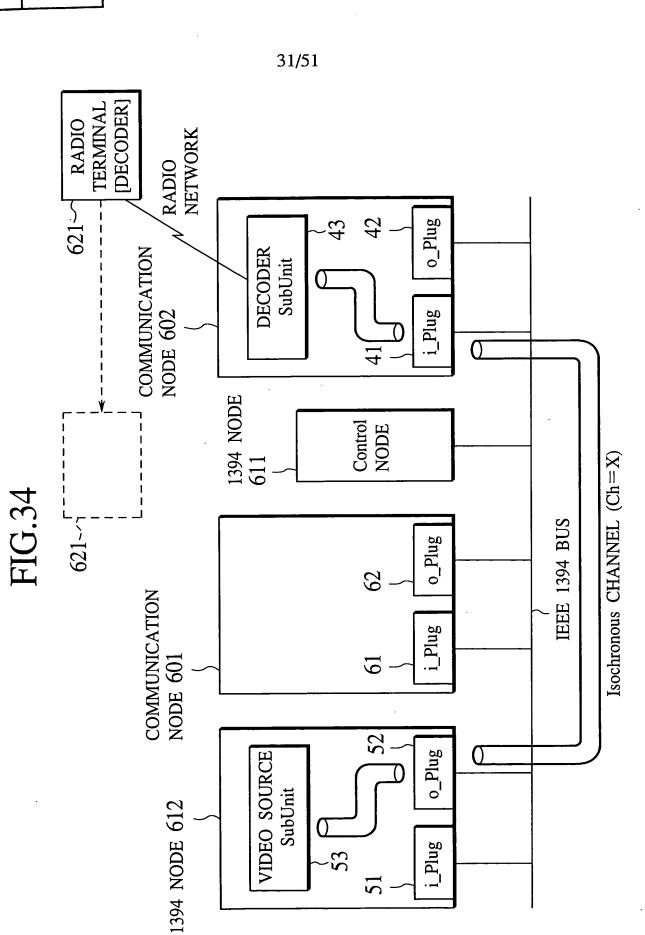
OBLON ET AL (703) 413-3000 DOCKET #2039-7368-2/8/JEET 30

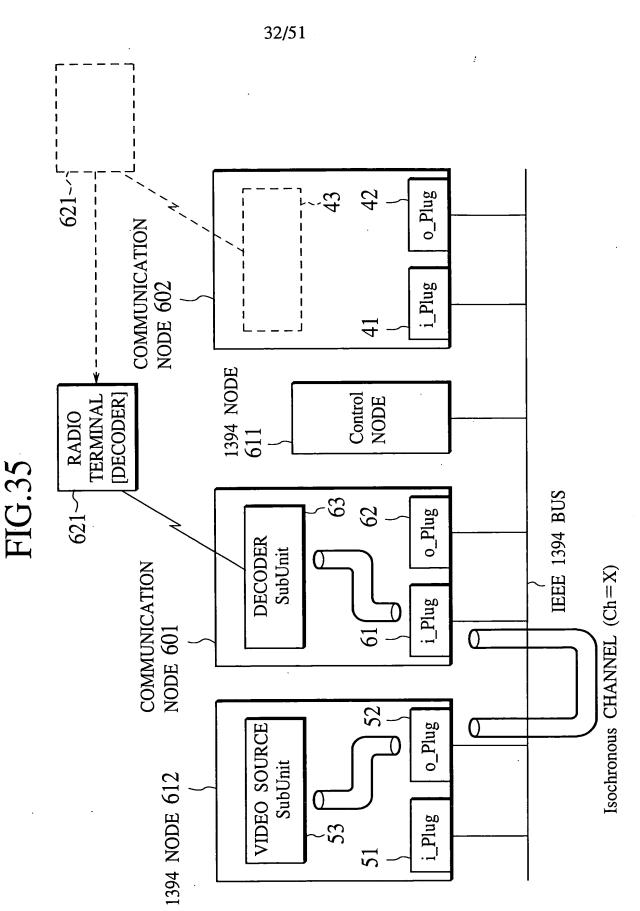
AFPROVED O.G. FIG.
BY CLASS SUBCLASS
DRAFTSMAN

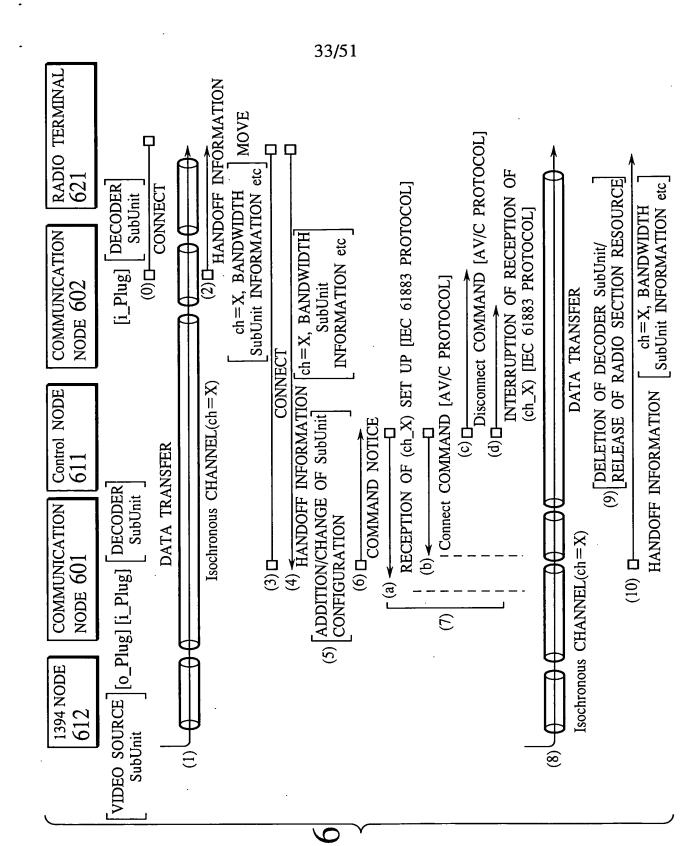


APPROVED

DRAFTSMAN

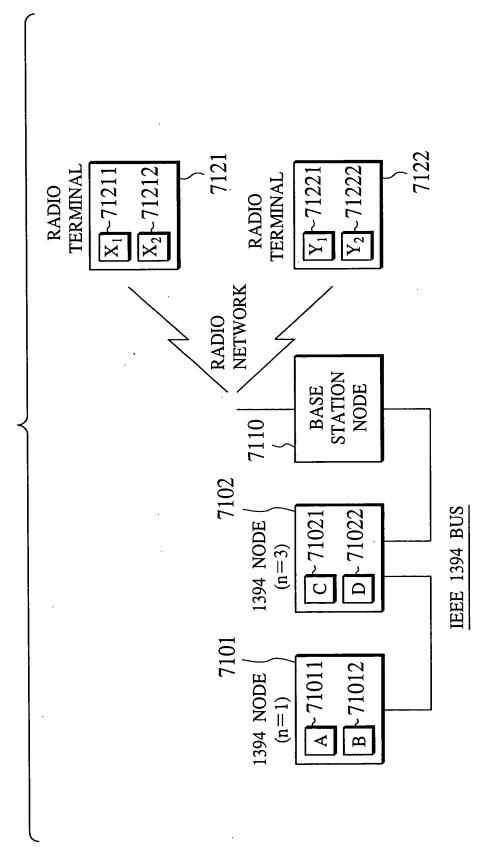






34/51 **FIG.37** S101 NO RADIO TERMINAL $S1\overline{22}$ CONNECTED ADD DECODER SubUnit S102 RADIO TERMINAL IS TO BE PRODUCE COMMAND CONNECTED FROM HANDOFF INFORMATION, NOTIFY S103 COMMAND TO Control ANY HANDOFF YES **NODE** INFORMATION? S104 S123 NO S124 Connect ADD DECODER SubUnit S105 & REQUEST FOR START NO RECEPTION OF ch_X RADIO TERMINAL CONNECTED RECEIVED WITHIN S107 PRESCRIBED DATA TRANSFER RADIO TERMINAL PERIOD? S125 YES DISCONNECTED **REQUEST** (HANDOFF) S106 RESERVE RESOURCE FOR HANDOFF PROCESSING VIDEO SOURCE **EXECUTION** S108 - \rightarrow RADIO TERMINAL(ch=X) Connect BETWEEN i_Plug & DECODER SubUnit RECEIVE ch_X BY i_Plug NOTIFY HANDOFF INFOR-S109 MATION TO RADIO TERMINAL NOTIFY HANDOFF INFORMATION TO S110 -DATA RECEPTION RADIO TERMINAL →TRANSFER TO RADIO TERMINAL (ch=X)S126 S111 RADIO TERMINAL RADIO TERMINAL S115 DISCONNECTED CONNECTED START Connect S113 S112 PROCESSING FOR NEW RADIO TERMINAL Disconnect & DIS-REQUEST FOR FINISH NO **CONNECT** RECEIVING ch_X RECEIVED ch = XWITHIN PRESCRIBED PERIOD? YES (HANDOFF) HANDOFF PROCESSING EXECUTION S116~ (· DELETE DECODER SubUnit) Disconnect BETWEEN i_Plug & **DECODER SubUnit** · TERMINATE ch X OF i Plug

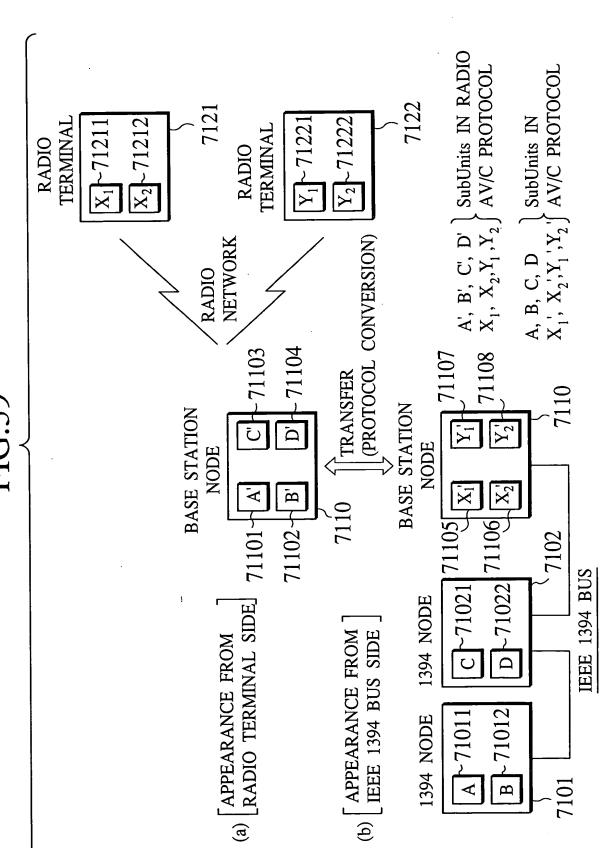
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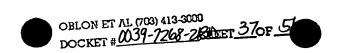
RADIO TERMINALS 7121 & 7122 ARE RADIO AV/C COMPATIBLE NODES · 1394 NODE 7101 & 1394 NODE 7102 ARE COMPATIBLE ONLY TO AV/C

DOCKET # 0039-7208-28-EET 360F

APPROVED O.G. FIG.
BY CLASS SUBCLASS
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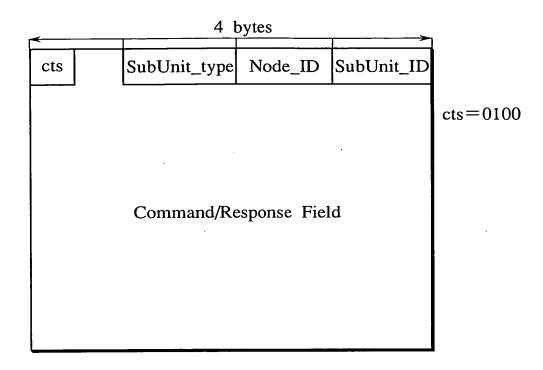


FIG.44

RADIO Header		
TRANSACTION ID		
FCP FRAME FOR RADIO AV/C (SEE FIG.41)		
CRC		

PRODUCING CORRESPONDENCE $|T\rangle$ EXECUTING PROCESSING TABLE FOR 1394 SIDE TRANSACTION ID CORRESPONDING TO RADIO (TRANSACTION ID=q, DESTINATION SubUnit_ID=X1) AV/C COMMAND→RADIO AV/C COMMAND CONVERSION AV/C COMMAND (TRANSACTION ID=q, PROCESSING RESULT) RADIO TERMINAL (4) (IDENTIFYING/ROUTING DESTINATION SubUnit_ID, RADIO AV/C RESPONSE (RADIO PACKET) (5) D RADIO AV/C COMMAND(RADIO PACKET) TRANSACTION D=a, DESTINATION SubUnit_ID=X1', & RADIO SIDE TRANSACTION ID SOURCE NODE ID=1, DESTINATION NODE ID=2 (6) PRODUCING CORRESPONDENCE BASE STATION NODE 7110(n=2)(2) D AV/C COMMAND(Write_req. PACKET) 'AV/C PROTOCOL ACTIVATED Ack_Complete BY APPLICATION 1394 NODE 7101(n=1)[Controller] 3

'RADIO AV/C RESPONSE→AV/C RESPONSE CONVERSION,

ROUTING BY TRANSACTION ID VALUE

AV/C RESPONSE (Write_req. PACKET)

SOURCE NODE ID=2, DESTINATION NODE ID=1 TRANSACTION ID=a, PROCESSING RESULT

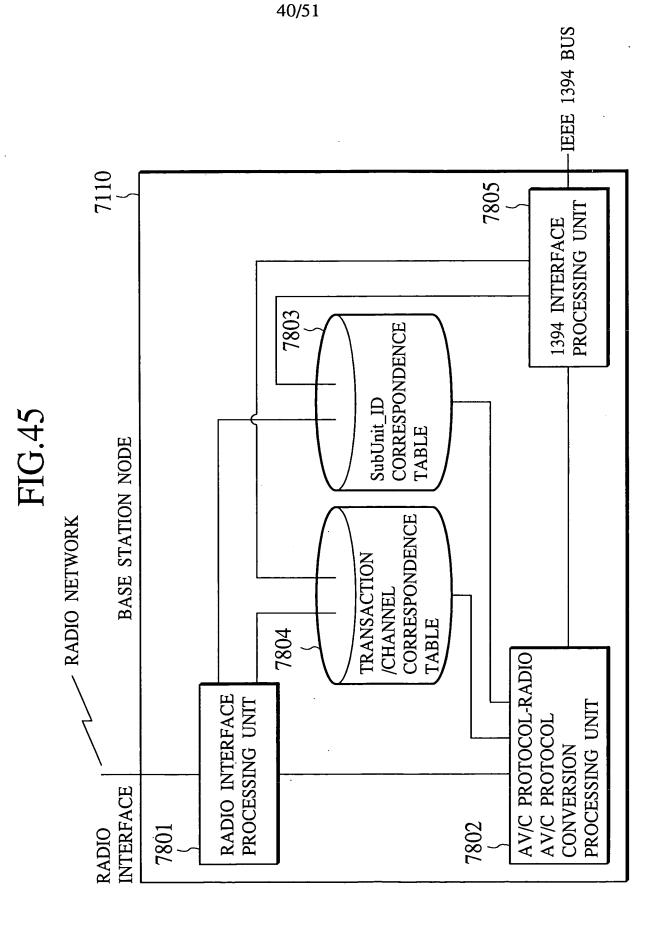
Ack_Complete

39/51 RADIO AV/C COMMAND→AV/C COMMAND CONVERSION (10) (ROUTING BY TRANSACTION ID, AV/C RESPONSE→RADIO AV/C RESPONSE CONVERSION) (1) $\left(\begin{array}{c} AV/C & PROTOCOL & ACTIVATED \\ BY & APPLICATION \end{array} \right)$ RADÌO TERMÎNAL (3) IDENTIFYING/ROUTING DESTINATION SubUnit_ID, [Controller] RADIO AV/C COMMAND(RADIO PACKET) $(\overline{T}RANSACTION ID=q, PROCESSING RESULT)$ 7121 (7) PRODUCING CORRESPONDENCE TABLE RADIO AV/C RESPONSE (RADIO PACKET) FOR RADIO SIDE TRANSACTION ID & DESTINATION SubUnit_ID=A' 1394 SIDE TRANSACTION ID TRANSACTION ID=q, TRANSACTION ID=a, DESTINATION SubUnit_ID=A SOURCE NODE D=1, DESTINATION NODE D=2SOURCE NODE ID=2, DESTINATION NODE ID=1 BASE STATION NODE TRANSACTION ID=a, PROCESSING RESULT 7110(n=2)AV/C COMMAND(Write_req. PACKET) AV/C RESPONSE (Write_req. PACKET) 日(三) Ack_Complete Ack_Complete EXECUTING PROCESSING CORRESPONDING TO 1394 NODE 7101(n=1)AV/C COMMAND (S) 口 6 4 8 9

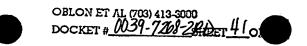
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DOCKET # 0039-7268-28-DET-40 OPLON ET AL (703) 413-3000



APPROVED	O.G. FIG.		
BY	CLASS	SUBCLASS	
DRAFTSMAN			



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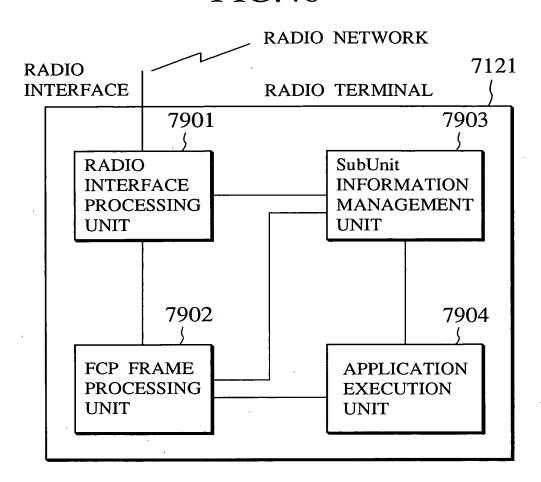
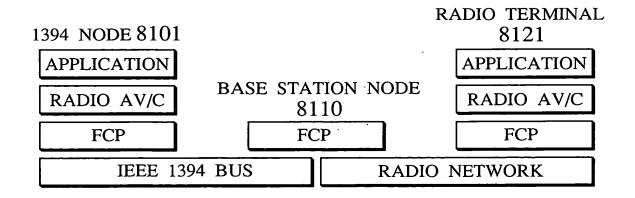
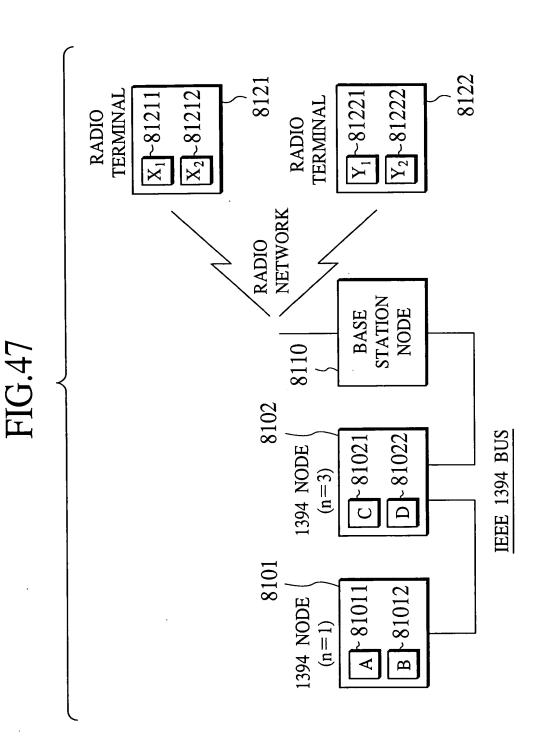


FIG.49



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C, D : SubUnits IN AV/C PROTOCOL A, B, X_1, X_2, Y_1, Y_2 : SubUnits IN RADIO AV/C PROTOCOL

DSIVING INTING

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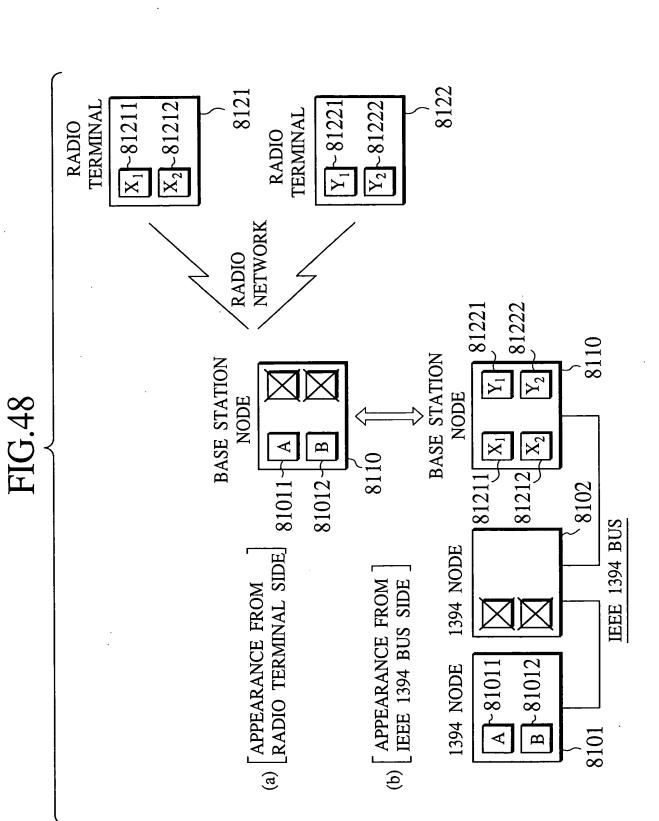
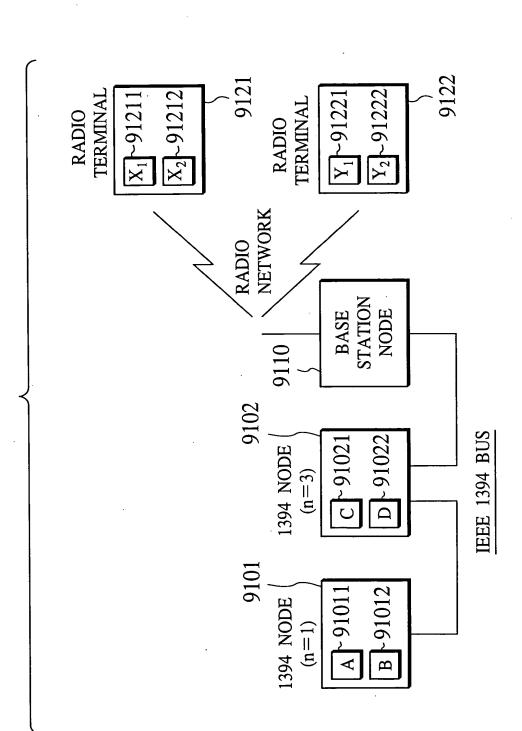


FIG.50



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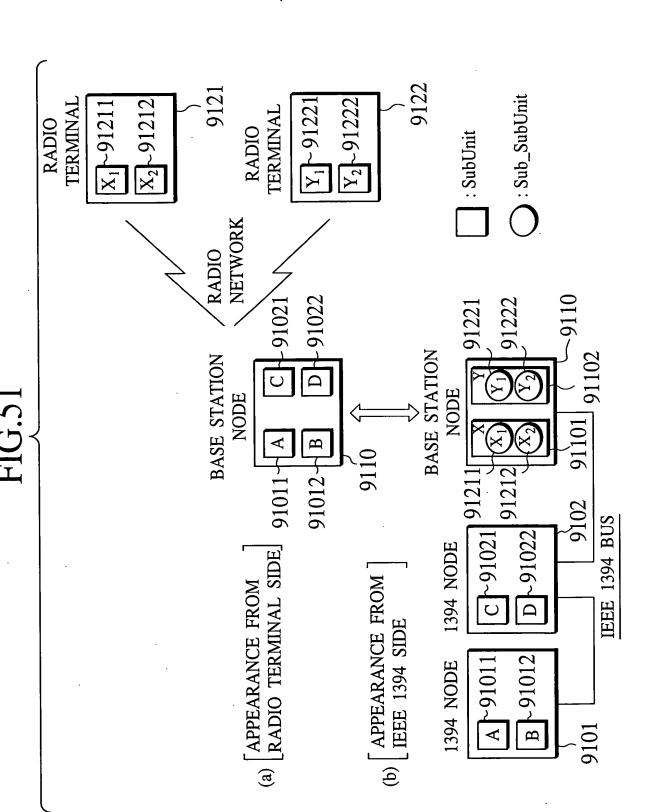
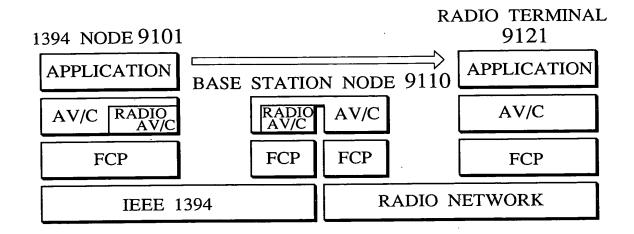
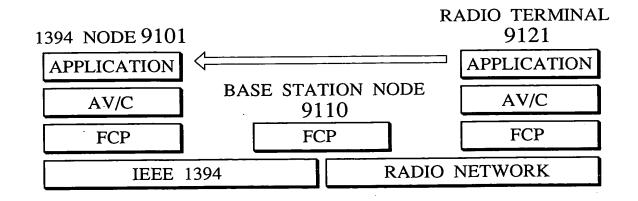
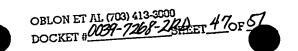


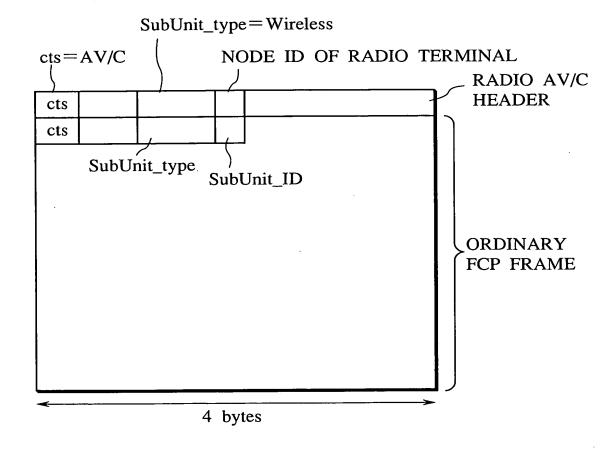
FIG.52







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RADIO TERMINAL

BASE STATION NODE

9110(n=2)

The first that the shall be the first the three the shall be the training the train

(SubUnit_Info COMMAND)

(2) D SubUnit INFORMATION DISCLOSURE REQUEST

'AV/C PROTOCOL ACTIVATED

(1) BY APPLICATION

1394 NODE 9101(n=1)

[Controller]

DISCLOSURE

3

(4) PRODUCING AV/C COMMAND OF Wireless SubUnit=X WITH RESPECT TO Sub_SubUnit=X1

(5)[PRODUCING/ATTACHING RADIO AV/C HEADER]

IRANSACTION ID=a, DESTINATION SubUnit_ID=X, WITHIN FCP FRAME DESTINATION SubUnit_ID=X1 SOURCE NODE ID=1, DESTINATION NODE ID=1, RADIO AV/C COMMAND(Write_req. PACKET) (**6**)

 $^{(7)}\Big(\text{IDENTIFYING RADIO TERMINAL BY DESTINATION SubUnit_ID} \Big) \Big(\text{PRODUCING AV/C COMMAND BY TAKING OUT FCP FRAME} \Big)$

(TRANSACTION ID=q, DESTINATION SubUnit_ID= X_1) (8) DAV/C COMMAND(RADIO PACKET)

(9) (PRODUCING CORRESPONDENCE TABLE FOR 1394 SIDE) (10) (EXECUTING) (TRANSACTION ID & RADIO SIDE TRANSACTION ID

AV/C RESPONSE(RADIO PACKET)

COMMAND

(TRANSACTION D=q, PROCESSING RESULT)

(12) ROUTING USING TRANSACTION ID AV/C RESPONSE (Write_req. PACKET)

(14) RECOGNIZING THAT IT IS ALSO AV/C COMMAND RESPONSE TO Sub_SubUnit=X ACCORDING TO TRANSACTION ID VALUE (TRANSACTION ID=a, \overline{PR} OCESSING RESULT)

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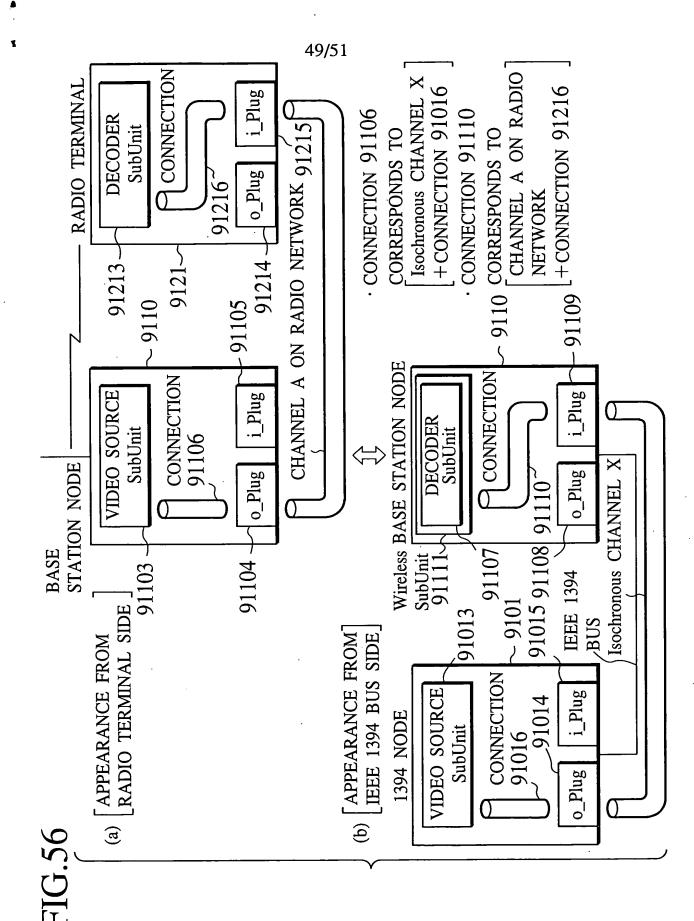


FIG.57

O.G. FIG APPROVED CLASS SUBCLASS BY RAFTSMAN

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-1 (11) (SETTING UP CONNECTION 91216, TAKING OUT RADIO AV/C ACCEPT PECTFORMS

ACQUISITION OF CHANNEL A ON RADIO NETWORK

PACKET PECTFORMS

COMMAND (17) (IMAGE PLAYBACK) (10) AV/C COMMAND(CONNECT COMMAND) (DECODER SubUnit 91213~i_plug 91215) RADIO TERMINAL → (15) PROCESSING FOR TRANSFER TO CHANNEL A. IMAGE TRANSFER AV/C RESPONSE CHANNEL A ON RADIO NETWORK RADIO AV/C COMMAND(CONNECT COMMAND) (DECODER Sub_SubUnit 91107~i_plug 91109) SubUnit INFORMATION DISCLOSURE REQUEST BASE STATION NODE (DECODER SubUnit WITHIN Wireless SubUnit) (3) (SETTING UP CONNECTION 91016)
 12) ←
 (5) [PACKET TRANSMISSION REQUEST TO OWN NODE] 9110(n=2)ACQUISITION OF Isochronous CHANNEL X REQUEST TO OWN NODE, 'PACKET TRANSMISSION PACKET RECEPTION REQUEST (7) 91106, 91110. (BANDWIDTH = 10Mbps)IMAGE TRANSFER DISCLOSURE Isochronous CHANNEL X (14) AV/C RESPONSE 1394 NODE $910\bar{1}(n=1)$ [Controller] (5) \ \

